

Message Text

PAGE 01 NATO 01847 311315Z
ACTION EUR-12

INFO OCT-01 ISO-00 CIAE-00 PM-04 INR-07 L-03 ACDA-07
NSAE-00 PA-01 SS-15 PRS-01 SP-02 USIA-06 TRSE-00
CCO-00 OTPE-00 EB-08 FCC-01 OC-06 COME-00 BIB-01
/075 W

-----010800Z 093261 /22

R 311240Z MAR 77
FM USMISSION NATO
TO SECDEF WASHDC
INFO SECSTATE WASHDC 2556
DCA WASHDC
DCA-EUR VAIHINGEN
USCINCEUR
USLOSACLANT

C O N F I D E N T I A L USNATO 1847

SECDEF FOR OASD(C3I)

E.O. 11652: GDS
TAGS: ETEL, MARR, NATO
SUBJECT: SPECIFICATIONS FOR DIGITAL LINE-OF-SIGHT (LOS)
RADIO SYSTEMS

SUMMARY: NICSMA HAS ASSERTED THAT A DIGITAL SOLUTION FOR THE NORTHWOOD - OAKHANGER RADIO SYSTEM RUNS SOME RISKS. NICSMA HAS ALSO IDENTIFIED SEVERAL ACTIONS IT CONSIDERS NECESSARY BEFORE IT CAN ISSUE DIGITAL SPECIFICATIONS. WE BELIEVE US EXPERTISE CAN ASSIST NICSMA GREATLY IN OVERCOMING STATED PROBLEMS. ACTION REQUESTED: WASHINGTON AUTHORIZE RELEASE TO NICSMA OF CERTAIN DIGITAL SYSTEM SPECIFICATIONS AND AUTHORIZE DCA PERSONNEL TO ASSIST NICSMA. END SUMMARY.

1. ON MARCH 23, 1977 NICSMA REPS MADE A STATEMENT TO INFRASTRUCTURE WRKING GROUP 18 REGARDING DIGITALIZATION OF THE OAKHANGER - NORTHWOOD LOS LINK. THE STATEMENT, CONFIDENTIAL

PAGE 02 NATO 01847 311315Z

INTER ALIA, LISTED ACTIONS WHICH NICSMA MUST TAKE, AS FOLLOWS:

- A. DEFINE OVERALL DIGITAL STANDARDS FOR NICS TRANSMISSION SYSTEMS.
- B. EXAMINE ORDERWIRE PHILOSOPHY TO DEFINE PROCEDURES AND ELECTRICAL INTERFACES BETWEEN MULTIPLEXERS, CRYPTO, AND MODEMS.
- C. WRITE TECHNICAL SPECIFICATIONS FOR THE RADIO EQUIPMENT AND FOR THE DIGITAL MULTIPLEX EQUIPMENT.

2. THE NICSMA REPS CONTENTED THAT A DIGITAL SOLUTION HAS RISKS. NICSMA CANNOT PREPARE DIGITAL MULTIPLEX SPECIFICATIONS UNTIL

IT HAS DEFINED THE OVERALL DIGITAL STANDARDS AND DEVELOPED ITS ORDERWIRE PHILOSOPHY. THE TIME REQUIRED FOR THESE ACTIONS COULD DELAY THE NORTHWOOD - OAKHANGER LOS PROJECT WELL BEYOND THE REQUIRED OPERATIONAL DATE. FURTHER, IF NICSMA PROCEEDED WITHOUT FIRST TAKING THESE ACTIONS, THE PROCURED DIGITAL SYSTEM MAY NOT BE TOTALLY COMPATIBLE WITH EQUIPMENT PROCURED AFTER DIGITAL STANDARDS AND THE ORDERWIRE PHILOSOPHY ARE KNOWN.

3. SEVERAL MEMBERS OF WG 18, LED BY THE US AND CANADIAN MEMBERS, VERY STRONGLY OBJECTED TO THE NICSMA POSITION. THEY ARGUED THAT NICSMA COULD SAFELY USE EXISTING EUROPEAN DIGITAL STANDARDS AND THAT SEVERAL ALLIED NATIONS WHICH HAVE INSTALLED DIGITAL SYSTEMS COULD ADVISE NICSMA ON THE OTHER ASPECTS. IN SUBSEQUENT DISCUSSIONS WITH NICSMA REPS, WE LEARNED THAT NICSMA HAS NOT YET SOUGHT OUTSIDE ASSISTANCE. WE BELIEVE THAT THE US, THROUGH EXPERIENCE GAINED IN THE DIGITAL EUROPEAN BACKBONE (DEB) PROJECT, CAN PROVIDE GREAT HELP TO NICSMA.

4. WE RECOMMEND THAT, IF POSSIBLE, THE US PROVIDE NICSMA WITH COPIES OF THE TECHNICAL SPECIFICATIONS AND WITH PERTINENT IMPLEMENTATION AND INSTALLATION PLANS FOR THE DEB SYSTEM. FURTHER, WE RECOMMEND THAT KNOWLEDGEABLE DCA-EUR OPERATIONS AND ENGINEERING PERSONNEL (AUGMENTED BY DCA WASHINGTON PERSONNEL IF NECESSARY) MEET WITH NICSMA PERSONNEL TO ASSIST IN THEIR GENERAL EDUCATION ON PLANNING, ENGINEERING AND IMPLEMENTING DIGITAL TRANSMISSION SYSTEMS. CONFIDENTIAL

PAGE 03 NATO 01847 311315Z

IN PARTICULAR, WE BELIEVE THAT THE US EXPERTS COULD ELIMINATE CONCERN SOME NICSMA PERSONNEL HAVE REGARDING ORDERWIRES IN A BULK-ENCRYPTED SYSTEM. THE DEPUTY DIRECTOR GENERAL NICSMA CONCURS IN OUR RECOMMENDATIONS.

5. FYI: THE OAKHANGER - NORTHWOOD LOS SYSTEM WILL OPERATE IN THE 4.4-TO-5 GHZ FREQUENCY BAND. IN AN INFORMAL INDUSTRY SURVEY BY NICSMA, FIVE FIRMS RESPONDED AS BEING CAPABLE OF OFFERING DIGITAL SYSTEMS OPERATING IN THIS BAND. END FYI.

6. REQUEST WASHINGTON AUTHORIZE RELEASE OF DEB SPECIFICATIONS AND AUTHORIZE THE RECOMMENDED ASSISTANCE BY DCA. IF APPROVED, THESE ASSISTANCE ACTIONS COULD BE CHanneLED TO NICSMA THROUGH THE DEFENCE COMMUNICATIONS FIELD OFFICE. STRAUSS-HUPE

CONFIDENTIAL

<< END OF DOCUMENT >>

Message Attributes

Automatic Decaptioning: X
Capture Date: 30-Aug-1999 12:00:00 am
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: n/a
Control Number: n/a
Copy: SINGLE
Sent Date: 31-Mar-1977 12:00:00 am
Decaption Date: 01-Jan-1960 12:00:00 am
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 22 May 2009
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1977NATO01847
Document Source: ADS
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: 11652 GDS
Errors: n/a
Expiration:
Film Number: n/a
Format: TEL
From: NATO
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1977/newtext/t197703110/baaabcqv.tel
Line Count: 102
Litigation Code IDs:
Litigation Codes:
Litigation History:
Locator: TEXT ON-LINE
Message ID: 98a001b0-c288-dd11-92da-001cc4696bcc
Office: ACTION EUR
Original Classification: CONFIDENTIAL
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators:
Previous Classification: CONFIDENTIAL
Previous Handling Restrictions: n/a
Reference: n/a
Retention: 0
Review Action: RELEASED, APPROVED
Review Content Flags:
Review Date: 06-Apr-2005 12:00:00 am
Review Event:
Review Exemptions: n/a
Review Media Identifier:
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
SAS ID: 2963986
Secure: OPEN
Status: NATIVE
Subject: SPECIFICATIONS FOR DIGITAL LINE-OF-SIGHT (LOS) RADIO SYSTEMS
TAGS: ETEL, MARR, NATO
To: SECDEF INFO STATE MULTIPLE
Type: TE
vdkgvwkey: odbc://SAS/SAS.dbo.SAS_Docs/98a001b0-c288-dd11-92da-001cc4696bcc
Review Markings:
Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
22 May 2009
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009